

Work Order ID 142035

142035

Page 1

Tuesday, February 23, 2016 3:13:30 PM

Item ID: D206-642-212

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Skidtube RH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 3/18/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: *MCS*

Date: FEB 24 2016 Tooling:

Date:

Run Start *NR1*

QC:

Date: SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

IIN-D206-642

Q

DAS
6
9-89

MCS 1603-14

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP206-642-212 CHG008

DAS
28
9-89

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

JUN 22 2016
6
9-89

MAR 14 2016

DAS
27
9-89

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
28
9-89

JUN 22 2016

B142046

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 142035

142035

Page 2

Tuesday, February 23, 2016 3:13:30 PM

Item ID: D206-642-212

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Skidtube RH, High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 3/11/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: Date: Tooling: Date: QC: Date: SPC (Y/N): Date:

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D206-642-212 Location : FG083								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

DAS
27
9-89

JUN 22 2016

MCS JUN 23 2016

DAS
28
9-89

JUN 23 2016

2m 16/06/23



DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____			
Misidentified ☐		Past Due ☐					

Picklist Print

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH,High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:K05.07.14ECN 847 & 901: Add Tow Ring and GHW
KitKJ/CP/JLM
IPP Rev:L 07-12-04 ECN 1080p DD verified by: IPP rev M
10.02.02 per IIN rev M EC verified by: JLM IPP REV:N
11.11.17 PER IIN REVO DD VERF;EC IPP Rev:O 12.11.21
ECN12-679 DD verf:JLM IPP Rev:P 14.04.24 ECN14-
520 DD verf:JLM

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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D206-642-241		Manufactured	No			110	Each	4.0000	1	1		DAS 6 9-89	DAS 27 9-89
D206-642-241										**			
Replacement Skidtube,High Gear with Standard Wearplates Fits LH or RH													

M.D.

D206-651-041

Manufactured No

D206-651-041

206 A/B GHW

Location	Loc Qty	Loc Code
FG	2	
101553	1	
98943	1	
FG083	2	
112296	1	
113636 - B142046	1	
	7.0000	

**

DAS
27
9-89
DAS
6
9-89

Location	Loc Qty	Loc Code
FG	1	
79558	1	
PKG012	6	
114414	6	

DAS
28
9-89

MAR 14 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH,High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

D2665-2 Manufactured No

110 Each

Start Qty: 1.00
2.0000 2 2

Required Qty: 1.00

D2665-2

Saddle, RH, Fwd, Aft, Out

DAS
28
9-89

Location

Loc Qty

Loc Code

ST403

2

131091

1

135239

1

D2666-2 Manufactured No

110 Each

4.0000 2 2

D2666-2

Saddle, RH, Fwd, Aft, In

DAS
28
9-89

Location

Loc Qty

Loc Code

ST402

4

121591

3

135237

1

AN3-41A Purchased No

110 Each

418.0000 8 8

AN3-41A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

20

122416

20

over003

314

123355

314

ST347

84

123355

84

DAS
28
9-89

DAS
28
9-89

MAR 14 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐ _____					

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

D2652

Manufactured No

110 Each

Start Qty: 1.00
579.0000 16 16

Required Qty: 1.00

D2652

Bushing

**

DAS
28
9-89

Location

Loc Qty

Loc Code

FG	45	
31985	45	
ST009	234	
136228	234	
ST012a	300	
136792	0	
141077	300	

16

MS21042L3

Purchased No

110 Each

1,723.000 8 8

MS21042L3

Nut

**

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001	163	
m133790	163	
GA	130	
m133790	130	
ST304	1430	
m134039	1430	

8

NAS1149D0363J

Purchased No

110 Each

1,138.000 8 8

NAS1149D0363J

Washer

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA	64	
m130799	64	
ST263	1074	
m133932	74	
m134055	1000	

8

DAS
27
9-89

DAS
6
9-89

DAS
27
9-89

DAS
6
9-89

MAR 14 2016

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Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

AN5-7A Purchased No 110 Each 4,086.000 4 4

Start Qty: 1.00

Required Qty: 1.00

AN5-7A

Bolt

**

DAS
6 27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over009

4086

M119017

2400

M123355

1510

m126010

176

AN5-11A Purchased No

110 Each 141.0000 4 4

AN5-11A

BOLT

**

DAS
6 27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

60

M134134

60

ST338

81

M133234

31

M134039

50

NAS1149D0563J Purchased No

110 Each 1,324.000 8 8

NAS1149D0563.J

Washer

**

DAS
27
9-89
6 27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

309

m125807

14

m133769

295

ST263

912

m133363

14

m133938

11

m133990

387

m134257

500

ST269

103

m128257

103

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____			
Misidentified ☐		Past Due ☐					

Picklist Print

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

AN4-6A Purchased No 110 Each 1,082.000 12 12 Start Qty: 1.00 Required Qty: 1.00

AN4-6A
BOLT

**

DAS
27
6
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
CA	143	
M128403	43	
M130851	100	
ST345	939	
M133316	18	
M133363	1	
M133790	920	

12

NAS1149D0463J Purchased No 110 Each 5,027.000 24 24

NAS1149D0463.J
WASHER

**

DAS
28
9-89

Location	Loc Qty	Loc Code
GA	237	
M129390	41	
M132035	196	
ST263	3442	
M134039	3442	
ST269	1348	
M130799	360	
M132317	100	
M132677	888	

24

DAS
27
6
9-89

MAR 14 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	Past Due ☐							

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH,High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

MS21042L4

Purchased

No

110

Each

Start Qty: 1.00
2,544.000 12 12

Required Qty: 1.00

MS21042L4

Locknut

**

DAS
27
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

456

m133769

456

ST007

1500

m134055

1500

ST303

450

m133769

450

ST305

97

m130922

97

AN6-44A

Purchased

No

110

Each

180.0000 2 2

AN6-44A

Bolt

**

Location

Loc Qty

Loc Code

over008

150

123265

150

ST333

30

123265

30

DAS
28
7-89

MAR 14 2016
DAS
27
6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :	MRB (QSI042) Approval		
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

MS21042L6

Purchased

No

110

Each

Start Qty: 1.00
214.0000 2 2

Required Qty: 1.00

MS21042L6

Nut

**

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST007

100

m134055

100

ST303

114

m133134

5

m133932

9

m133938

50

m134257

50

2

NAS1149D0663J

Purchased

No

110

Each

716.0000 4 4

NAS1149D0663J

Washer

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260

227

M131618

227

ST260a

300

M133812

300

ST263

138

M133134

89

M133769

49

ST269

51

M126334

51

4

DAS
27
9-89

MAR 14 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	Past Due ☐							

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH, High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

AN4C5A Purchased No

110 Each

Start Qty: 1.00
73.0000 1 1

Required Qty: 1.00

AN4C5A

Bolt

**

DAS
28
9-89

Location

Loc Qty

Loc Code

OVER002

50

m133990

50

ST345

23

m132857

3

m133135

20

NAS1149C0463R

Purchased No

110 Each

390.0000 1 1

NAS1149C0463R

Washer

**

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

72

m127306

72

ST260a

200

m134167

200

ST271

118

m128401

18

m133077

100

D3413-1

Manufactured No

110 Each

20.0000 1 1

D3413-1

O-Ring

**

Location

Loc Qty

Loc Code

st530

20

136462

20

DAS
28
9-89

DAS
6 27
9-89

DAS
6 27
9-89

MAR 14 2016
DAS
6 27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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Work Order ID: 142035

142035

Parent Item: D206-642-212

D206-642-212

Parent Item Name: Skidtube RH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

D2712

Manufactured No

110 Each

Start Qty: 1.00
463.0000 10 10

Required Qty: 1.00

D2712

Set Screw

**

Location	Loc Qty	Loc Code
FG	55	
29962	55	
ST009	208	
102226	12	
135950	182	
89929	10	
93686	4	
ST012a	200	
140532	100	
141690	100	

DAS
28
9-89

DAS
28
9-89

D2884

Manufactured No

110 Each

16.0000 2 2

D2884

Saddle Spacer

**

Location	Loc Qty	Loc Code
FG	10	
29453	10	
ST013	6	
135977	6	

DAS
28
9-89

DAS
27
6
9-89

D2885

Manufactured No

110 Each

12.0000 2 2

D2885

Saddle Spacer

**

Location	Loc Qty	Loc Code
FG	10	
29199	10	
ST013	2	
121615	2	

DAS
28
9-89

DAS
27
9-89

JUN 13 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

4.3 206A/B HIGH GEAR SKIDTUBES

ITEM	QTY -211	QTY -212	QTY -213	QTY -214	QTY -241	QTY -257	PART NUMBER	DESCRIPTION
	X						D206-642-211	SKIDTUBE INSTALLATION, LH
		X					D206-642-212	SKIDTUBE INSTALLATION, RH
			X				D206-642-213	SKIDTUBE INSTALLATION, LH, THRU BOLT
				X			D206-642-214	SKIDTUBE INSTALLATION, RH, THRU BOLT
1	1	1	1	1	X		D206-642-241	SKIDTUBE
						X	D206-642-257	WEARSHOE KIT (REPLACES -247)
	1	1	1	1			D206-651-041	* 206 GHW ADAPTER ⁽³⁾
1					1		D2650-3	SKIDTUBE ASSEMBLY
2A					18		D2651-1	* PLUG ⁽¹⁾
2B					18		D2651-3	* O-RING ⁽¹⁾
3					1		D2646	* AFT CAP ⁽¹⁾
4					2		MS27039-1-08	* SCREW ⁽¹⁾
5					2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1		1				D2665-1	SADDLE, FWD OUT, LH
6		1		1			D2665-2	SADDLE, FWD OUT, RH
7	1		1				D2666-1	SADDLE, FWD IN, LH
7		1		1			D2666-2	SADDLE, FWD IN, RH
8	1						D2665-1	SADDLE, AFT OUT, LH
8		1					D2665-2	SADDLE, AFT OUT, RH
8			1				D2667-1	SADDLE, AFT OUT, LH
8				1			D2667-2	SADDLE, AFT OUT RH
9	1						D2666-1	SADDLE, AFT IN, LH
9		1					D2666-2	SADDLE, AFT IN, RH
9			1				D2668-1	SADDLE, AFT IN, LH
9				1			D2668-2	SADDLE, AFT IN, RH
10	8	8	8	8			AN3-41A	BOLT
11	16	16	16	16			D2652	BUSHING
12A	8	8	8	8			MS21042-3	NUT (OR MS21042L3)
12B	8	8	8	8			NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4	4	4			AN5-7A	BOLT
14	4	4	4	4			AN5-11A	BOLT
14A			2	2			AN5-32A	* BOLT ⁽²⁾
14B			2	2			MS21042-5	* NUT (OR MS21042L5) ⁽²⁾
15	8	8	8	8			NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12	12	12			AN4-6A	BOLT
17	24	24	24	24			NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12	12	12			MS21042-4	NUT (OR MS21042L4)
20A					4	4	D3537-1	WEARPAD (REPLACES D2648-3)
21A					1	1	D3537-3	WEARPAD (REPLACES D3429-1)
22A					1	1	D4956-13	WEARSHOE (REPLACES D3535-13 + D3536-13)
23A					1	1	D4956-21	WEARSHOE (REPLACES D3535-21 + D3536-21)
24A					1	1	D4956-33	WEARSHOE (REPLACES D3535-33 + D3536-33)
26A					44	44	MS27039C1-08	SCREW
26B					44	44	NAS1149C0332R	WASHER (OR AN960C10L)
26C					44		ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
28	2	2	2	2			AN6-44A	BOLT
29A	2	2	2	2			MS21042-6	NUT (OR MS21042L6)
29B	4	4	4	4			NAS1149D0663J	WASHER (OR AN960JD616)
34	1	1	1	1			AN4C5A	BOLT
35	1	1	1	1			NAS1149C0463R	WASHER (OR AN960C416)
36	1	1	1	1			D3413-1	RING (REPLACES D2655)
37	10	10	5	5			D2712	SET SCREW
38	2	2	2	2			D2884	SADDLE SPACER
39	2	2	2	2			D2885	SADDLE SPACER

NOTES: ⁽¹⁾ DENOTES THAT PART IS INCLUDED WITH D2650-3 ASSEMBLY ABOVE⁽²⁾ MAY BE REQUIRED ON -213/-214 INSTALLATIONS⁽³⁾ NOT INSTALLED AS PART OF SKIDTUBE. USED TO MODIFY OEM GROUND HANDLING WHEELS

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Revision: Q

Date: 13.08.12